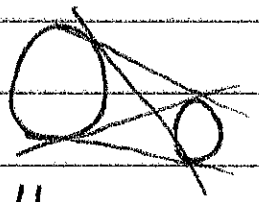
201

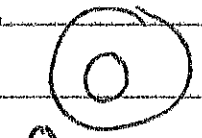
10.1 HW Key

10.2 p655 3-10, 15-22, 25 p661 3-10, 21

3. G 4. H 5. C 6. E 7. F 8. A 9. B 10. D

15. 

4

16. 

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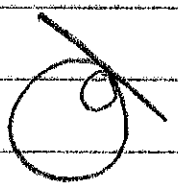
17. 

1

18. yes $3^2+4^2=5^2$ 19. No $9^2+45^2 \neq 18^2$ 20. yes $20^2+48^2=52^2$

21. $(r+16)^2 = r^2+24^2$

$r^2+32r+256 = r^2+576$

$32r = 320$

$r = 10$

22. $r^2+9^2 = (r+6)^2$

$r^2+12r+36$

$45 = 12r$

$3.75 = r$

25. $2x^2+5=13$

$2x^2=8$

$x^2=4$

$x = \pm 2$

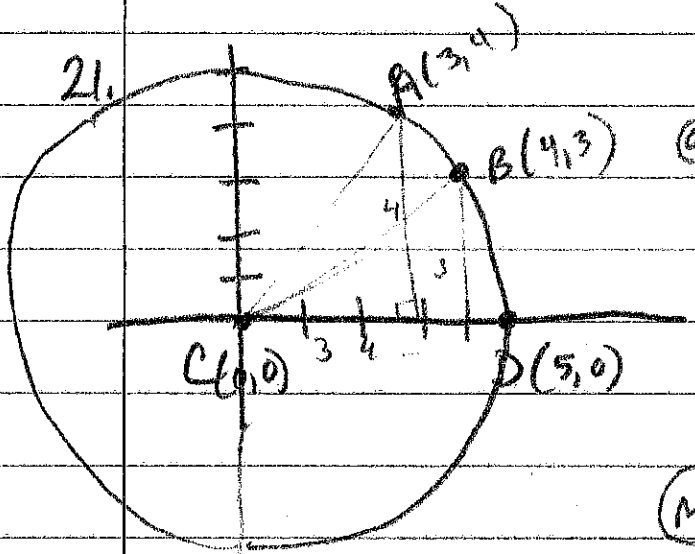
p661

3. minor 70° 4. minor 65°

5. minor 135° 6. minor 70°

7. minor 115° 8. semicircle 180°

9. Major 245° 10. Major 250°

21. 

(a) $\tan C = \frac{3}{4}$

$C = 36.9°$

$m\overset{\frown}{BD} = 36.9°$

(b) $\tan C = \frac{4}{3}$

$C = 53.1°$

$m\overset{\frown}{AD} = 53.1°$

(c) $53.1 - 36.9$

$m\overset{\frown}{AB} = 16.2°$